



ONLINE EDUCATION DURING COVID 19 PANDEMIC

Author: 1)Dipanita Mondol, 2)Sumaya Islam,3)Tushar Ahmed Nirma

1)ABSTRACT:

Online teaching methods have been followed by world Wide for more than a decade to the needs of students who stay far away from universities/colleges. But during the COVID-19 pandemic period, online education helped almost all universities, colleges, and affiliated students. To find the effectiveness of online teaching methods for university, college and school students by conducting an online survey we made an attempt. A questionnaire has been specially designed among university and college students. About 300 students from universities, colleges, and schools have taken part in the survey and submitted their responses. It is found that the animations, digital collaborations with peers, video lectures delivered by faculty handling the subject, online quiz having multiple-choice questions, availability of student version software, conducive .

2)INTRODUCTION:

Our education system is moving forward day by day with the touch of technology. Now it is becoming popular and in our country during this COVID 19 pandemic. Nowadays many educational institutes are shifting towards the online learning pattern. This way student can share their curriculum and the whole syllabus online. An online education system is essential for those people who are working and want to complete their studies from home as well. In emergency issues online class system is very fruitful for the students. There are three vertices in the online learning process and they are 1.Teaching, 2.Communication technology through digital tools and 3.Innovative practices in teaching. In this following sections present the online education tools, the details of the questionnaire used for the survey, and the outcome of the survey.

3)LITERATURE REVIEW:

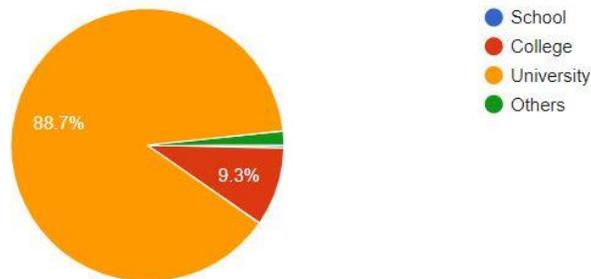
All educational activities were abruptly stopped due to the corona epidemic. Then online education is started to keep it running along the alternative path. And it has now become an important part for students.

REVIEW FROM GOOGLE SCHOLAR: From the article of Google scholar we collect some review and find that they collect very huge response but they have some lacking such as how much time a student spends in an online class, whether they are given a class record, what kind of quiz is more effective for their learning.

LACKINGS & FUTURE PLANNING: Our survey type is about education related. In this survey we have worked with the response of 300 students. Our survey have some lacking that we could not collect much data according to our target. Our future plan is to collect data from all categories institution & we will publish a research paper about this survey.

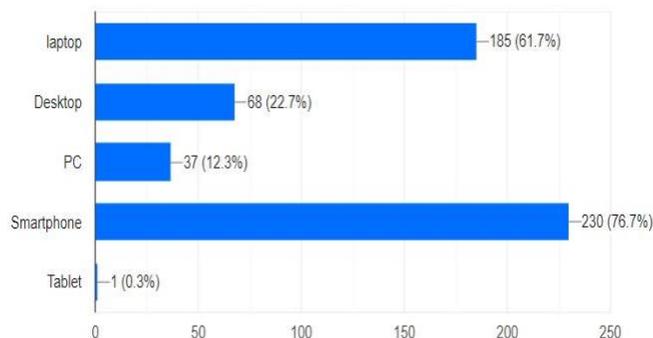
4)METHODOLOGY:

INSTITUTE BACKGROUND:



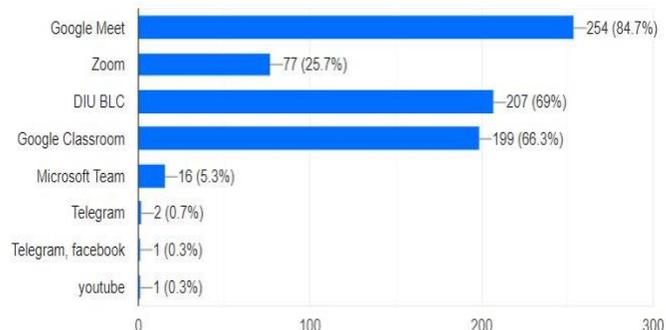
From The survey we find the institute category of every student.We can see that 88.7 % student are from University background .We can also see that 9.3% student are from college & 1.7% are from others institute who are taking online classes.

TECHNOLOGY USED IN EDUCATION:



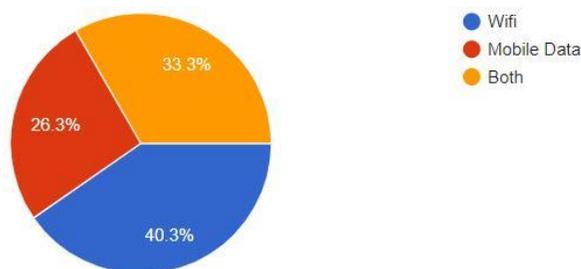
Though we live in an age of science, so there are many technologies which is invented with the help of science. Technology plays a fundamental role in the process of educating children and adolescents in the new era of education. From the survey we can see that about 76.7% students are using smartphone in their online classes & 61.7% students are using laptop to attend their classes. From the bar chart we can also see that 22.7% students are desktop users and 12.3% users are PC users. It can be noted that many students are using more than one device. We noticed that 50% students who are attend in the online classes they are also using smartphone, Desktop & laptop. If we look at the bar chart we can see that there are no tablet users who are taking online classes.

ONLINE LEARNING TOOLS:



It's the part of online learning tools.Online learning as part of the ongoing semester istypically part of a classroom management tool. From the survey we get a statistics that Google meet & Zoom are widely used in University and colleges during the COVID-19pandemic to effectively shift regular classes online.Otherpopular learning management systems that have beenadopted as part of blended learning are DIU BLC,Google Classroom, MicrosoftTeam andTelegram. So for this part there is point to be noted that the students of Daffodil International University are using the DIU BLC,because DIU BLC is the innovation of Daffodil International University.

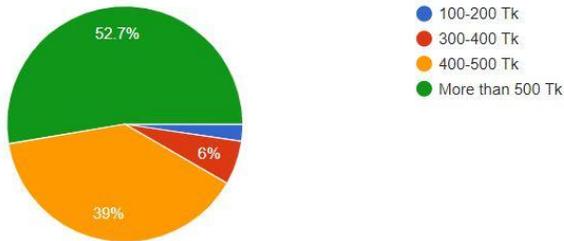
INTERNET CATEGORY STATISTICS:



In our Country generally people are using Mobile Data &Wi-Fi for make connection with one another.From the survey statistics we can see that 40.3% students are using Wi-Fi for their online Education. Whereas 26.3% students are using Mobile Data for online education but it is noted

that 33.3% student are using both the Wi-Fi and Mobile data.

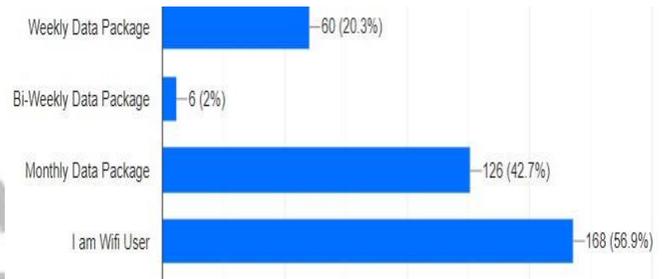
INTERNET COST STATISTICS :



So,from this statistics we can notice that about 52.7% students are spending more than 500 taka for internet purchase.It’s a huge amount during this pandemic for every students .We can also see that 30% students are spending 400-500 Taka&6% students are spending 300-400 Takafor purchasing internet .Only a few number students are spending 100-200 Taka for purchasing Internet.

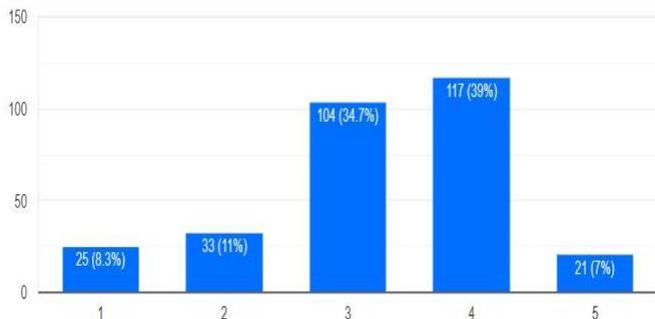
The internet is a global computer network that provides a variety of information and communication facilities over the interconnected networks using standard communication protocols. From the statistics we can see that 8.3% student internet connections are very poor & 11% students internet connection are poor & 34.7% students internet connection are average. It can be noted that 39% students connection are High & 7% student connection are very high. So maybe the low connection internet users are living in the village because in our country all villages have not internet tower. Due to the lack the village’s internet speed is low.

DATA PACKAGE STATISTICS:

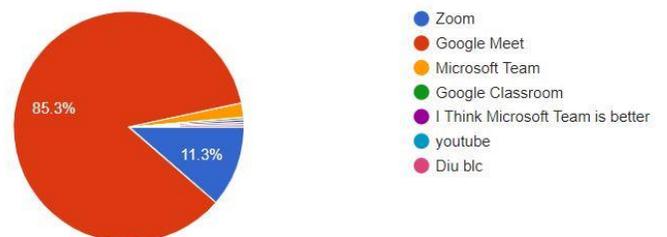


The statistics shows that 42.7% students are purchase the Monthly data package for online education. 20.3% students are purchasing weekly data package & 3.2% students are purchasing Bi-weekly data package & other students are Wi-Fi user.

INTERNET SPEED STATISTICS:

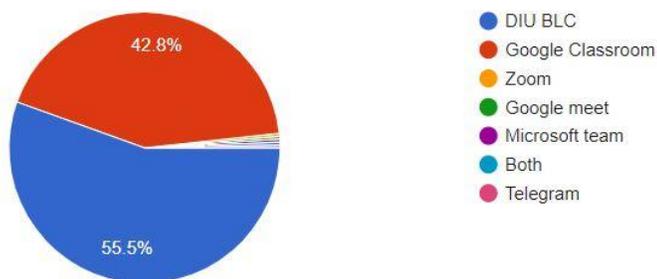


FAVOURITE PLATFORM FOR EDUCATION:



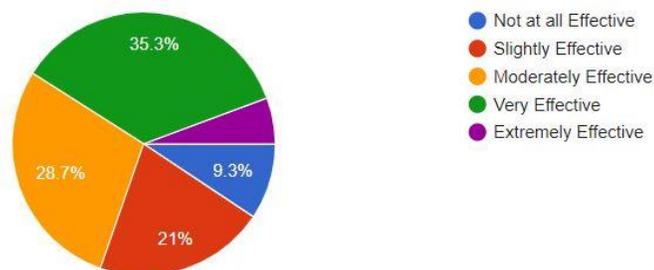
There are so many platforms for online education .But from the statistics 85.3% students favorite platform is Google Meet for online education & 11.3% students favorite platform is Zoom. In this statistics there are some students whose favorite platform is Microsoft Team & Google Classroom.So it is clear that Google meet is the first choice for maximum students.

FILE SUBMISSION & ATTENDANCE:



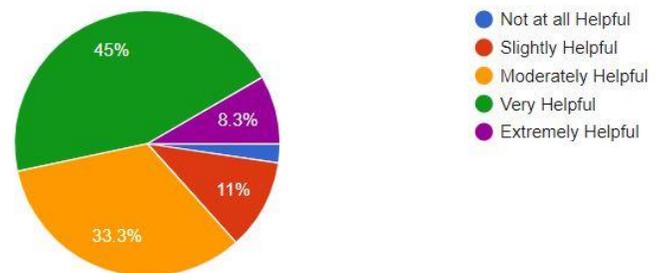
File submission & Attendance are playing a vital role in online education system. Because the attendances carry some marks & answerscript submission carries the maximum marks. So from the statistics we can see that 55.5% students favorite platform is DIU BLC for submitting file & taking attendance .The point is to noted that only the students of Daffodil International University are used the DIU BLC . Also we can see that 42.8% student favorite platform is Google Classroom for submitting the answer script & taking Attendance.

EFFECTIVENESS OF ONLINE EDUCATION:



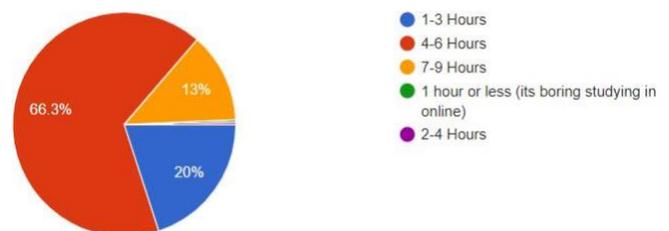
Though many university & college student are taking their online education,so we receive their feedback of the effectiveness of Online Education.From this pie chart we can see that 9.3% students said that the online education is not effective & 21% students said that the education is slightly effective. Also from the pie chart we see that 28.7% students said that the education system is moderately effective & 35.3% students said that the online education is very effective.Last but not least 5.7% students said that the online education is extremely effective.

TEACHERS HELPFULNESS STATISTICS:



We already told the three vertices of online education,so a teacher is one of them. Online educations effectiveness also depends on a teachers learning system. Here we see that 8.3% students said that their teachers are extremely helpful & 45% students said that theirteachers are very helpful & 33.3% students said that their teachers are moderately helpful. Also we see that 11% students said that their teachers are slightly helpful & only 2.3% students said that their teachers are not helpful.

TIME SPENDING EVERYDAY IN ONLINE EDUCATION:

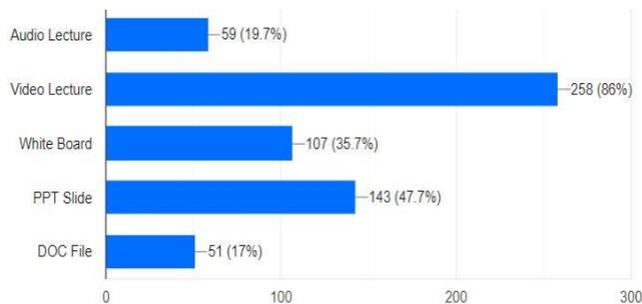


Times are very valuable in our life. Here the pie chart shows that 20% students spend 1-3 hours

in online education & 66.3% students spend 4-6 hours in online education. Last but not least we can also see that 13% students spend 7-9 hours in their online education & 0.3% students spend 1 hour or less in online education. So we can say that most of the students are serious in their online education .Only few students are spending less than 1 hour in their study that means they are not serious in their online education.

In this survey we asked the students that which type of quiz is more affective for testing the understanding. We find that 76.3% students choose MCQ for quiz & 17.7% students choose Short question for quiz. Only 6% students choose that Broad question is more effective for learning.

DIGITAL APPROACHES STATISTICS:



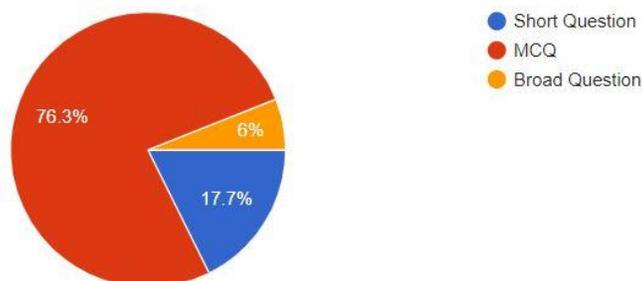
CLASS RECORD PROVIDING STATISTICS:



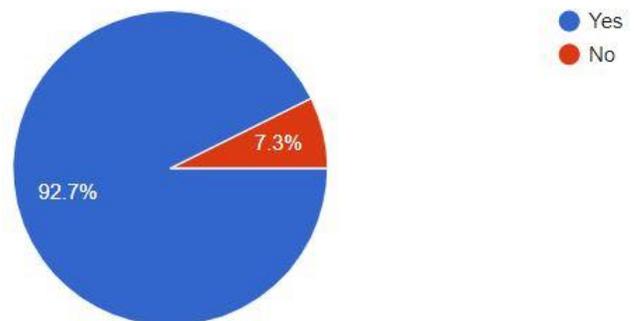
In this survey we asked a question to the students that which digital approaches motivate you to learn in this online education. The bar chart shows their responses. Here we see that 86% students are taking online classes because of the video lecture & 47.7% students are taking online classes because of the PPT slide. We can also see that 36.7% students & 17% students are motivated for the whiteboard and DOC file. Only 19.7% students are motivated by the audio lecture.

From the survey we see that 96.7% teachers provide the class record for better understanding & 3.3% teachers are not provide the class record. So it's a positive side of online education.

QUIZ EFFECTIVENESS FOR TESTING UNDERSTANDING:



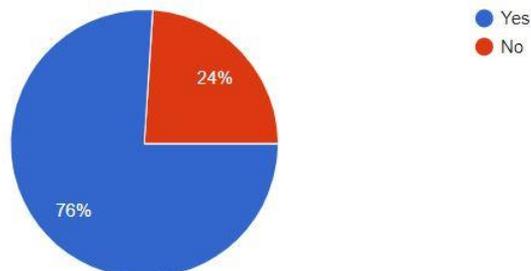
EXTERNAL RESOURCE PROVIDING STATISTICS:



External resources are very useful in online education system. We see that 92.7% teachers provide the external resource for online

education whereas only 7.3% teachers are not provides the external resource.

STUDENTS EXCITEMENT FOR ONLINE EDUCATION:



In this survey we asked students that do they enjoy this learning. In the statistics we see find that 76% students are enjoying this online education & 24% students are not enjoying this learning. There are some reasons behind it.

5)STUDENTS FEEDBACK:

Positive feedback:

- 1)The freedom to learn whatever anyonewants.
- 2)Comfort of learning from own home.
- 3)Ability to work a job while you study.
- 4)More opportunities for teacher-student.
- 5)Greater ability to concentrate.
- 6)Improve your communication skills.
- 7) Spend less than a traditional classroom.
- 8)Expand your professional network.

Negative Feedback:

- 1)Because they think that online education is boring
- 2) Online education is little bit good but it's not for proper learning for student.

3)Online classes do a lot of emotional damage.

4) Sometimes they faced network problem that time actually they missed the lecture.

Questionnaire are used in this survey:

- Institute Category?
- Which technology you are using for online education?
- Which internet service you are using?
- Rate your internet speed?
- How much does it cost to buy internet?
- Which data package do you use?(if needed)
- What technology based applications have you used for online education learning?
- Which platform is your favorite for online education?
- Which Platform is your favorite for submitting file & Taking Attendance?
- Do you enjoy this learning?
- How effective has remote learning been for you?
- How helpful are your teachers while studying online?
- How much time do you spend each day on average on online education?
- Which of the digital approaches motivate you to learn?
- Which type of quiz is more effective for testing the understanding?
- Do your teachers provide the class record?
- Do your teachers provide external resource for learning?
- Share your experience about online Education

Google Form Link:

<https://forms.gle/y5TDSglj5qvnlg4Z8>

6)CONCLUSION:

This paper presents the online teaching-learning tools, methods, and a survey on the innovative practices in teaching and learning. Advantages and obstacles in online teaching, various components on the effective use of online tools,

team-based collaborative learning, simulation, and animation-based learning are discussed in detail. The outcome of a survey on the effectiveness of online teaching and learning is included. The following sections present the online teaching-learning tools, the details of the questionnaire used for the survey, and the outcome of the survey.

REFERENCE:

<https://www.schooleducationgateway.eu/en/public/viewpoints/surveys/survey-on-online-teaching.htm>

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